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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATT	ATTORNEY DOCKET NO.	
09/051,827	05/01/98	ZIMMERMANN		J 4-	J 4-20624/A	
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MICHAEL W GLYNN				BERCH, M		
NOVARTIS CORPORATION				ART UNIT	PAPER NUMBER	
PATENT & TRADEMARK DEPARTMENT				6		
564 MORRIS AVENUE				1624	<i>7</i> 0	
SUMMIT NJ 07901-1027				DATE MAILED:		

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

03/29/00

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Application No.

09/051,827

Mark L. Berch

Applica. t(s)

Examiner

Group Art Unit 1624

Zimmermann



Office Action Summary

Responsive to communication(s) filed on	<u> </u>
☐ This action is FINAL .	
Since this application is in condition for allowance except for in accordance with the practice under Ex parte Quayle, 1939	
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	to respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	is/are allowed.
	is/are rejected.
Claim(s)	is/are objected to.
☐ Claims	are subject to restriction or election requirement.
Application Papers See the attached Notice of Draftsperson's Patent Drawing In the drawing(s) filed on	under 35 U.S.C. § 119(a)-(d). If the priority documents have been The priority documents have been International Bureau (PCT Rule 17.2(a)).
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No. Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-94 Notice of Informal Patent Application, PTO-152	

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 4-6 are rejected under 35 U.S.C. 112, paragraphs 1 and 2, as the claimed invention is not described, or is not described in such full, clear, and exact terms as to enable any person skilled in the art to make and use the same, and/or failing to particularly point out and distinctly claim the subject matter which applicant regards as his invention. Specifically:

The page 85 choices starting on line 19 generally do not fit within the definition of R_4 . Hence, these are improperly dependent on claim 1 (paragraph 2) and because these do not fall within the ambit of formula I they have no ascribed utility. Those on lines 19-21 are substituted carbocycles and those on lines 22-27 are substituted heterocycles. However, claim 1 permits substituents on the "aliphatic hydrocarbon radical" but not on the carbocyclic and heterocyclic choices.

Claims 10-13 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable

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one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claim sets forth the treatment of cancer generally. However, there never has been a compound capable of treating cancer generally. There are compounds that treat a range of cancers, but no one has ever been able to figure out how to get a compound to be effective against cancer generally, or even a majority of cancers. Thus, the existence of such a "silver bullet" is contrary to our present understanding in oncology. Even the most broadly effective antitumor agents are only effective against a small fraction of the vast number of different cancers known. This is true in part because cancers arise from a wide variety of sources, such as viruses (e.g. EBV, HHV-8, and HTLV-1), exposure to chemicals such as tobacco tars, genetic disorders, ionizing radiation, and a wide variety of failures of the body's cell growth regulatory mechanisms. Different types of cancers affect different organs and have different methods of growth and harm to the body, and different vulnerabilities. Thus, it is beyond the skill of oncologists today to get an agent to be effective against cancers generally, evidence that the level of skill in this art is low relative to the difficulty of such a task. These compounds inhibit a certain kinase, but there has never been a kinase for which it has been demonstrated that cancerous cells in general are sensitive to the kinase.

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Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 1. The dashes in the right ring of Formula I need to be defined.
- 2. The R_1 definition is unclear. The list appears to end in its first line with the "or", but then continues, and then there is a second "or" in the 4th line of the definition. Some terms are set aside with commas, some with semicolons, which is also unclear. The same problem occurs with the R_4 definition in claim 2 and elsewhere.
- 3. In fifth from last line of page 83 and also last line: Substituted with what? Likewise page 84 line 3 and elsewhere.
- 4.The term "acyl" is indefinite. Does this embrace acids of S? P? As? What does the stem look like, i.e. if the acyl is e.g. RC(O), what is R? In carboxylic acid acyls, does the carbon count include the carbon of the carbonyl? The claim 2 definition is suggested.
- 5. "Heterocyclic" is indefinite. What is the size of the ring? What is the number and nature of the heteroatoms? Can the ring be fused or spiroconnected to another ring, and if so, what kind of ring? Can the ring be bridged? Unsaturated?
- 6. The page 84 choice "hydrocarbyl R°" is unclear, because in the next line, R° is set forth as being largely non-hydrocarbyl choices.

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7. The term "thio" in the last line of page 84 is unclear. Is there intended thioxo (=S)

or mercapto (-SH)? Whatever choice is selected must be supported by the

specification.

8. Claim 7 is unclear; whatever species are desired must be listed

9. In claim 8, the term, "for use" simply states an intention, which is a mental step,

not a patentable limitation. Hence the claim is improperly dependent, as it does not

further limit the claim on which it depends.

10. "Use of" is not a permitted format for US patent claims (In re Fong, 129 USPQ

264). (Claims 11-12)

11. The phrase "in accordance ... groups" in the last two lines of page 91 is vague.

WO 98/16528 discloses compounds falling within the claimed genus but is not

available as a reference.

Specification

The specification must be amended to state that this is a 371 application.

This case lacks an abstract on a separate sheet of paper.

Any inquiry concerning this communication or earlier communications from the Examiner

should be directed to Mark L. Berch whose telephone number is 703-308-4718.

Mark L. Berch

Primary Examiner

Group 1610 - Art Unit 1624

March 27, 2000

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